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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,246	04/03/2002	Takayuki Okatani	SHIG CP04MA00TA	1290
²⁷⁶⁶⁷ HAYES, SOLO	7590 02/13/2007 DWAY P.C.		EXAMINER	
3450 E. SUNR	ISE DRIVE, SUITE 140	PERKEY, WILLIAM B		
TUCSON, AZ	85718		ART UNIT	PAPER NUMBER
			2851	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	02/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicati	on No.	Applicant(s)				
Office Action Summary		10/019,2	46	OKATANI, TAKAYUKI				
		Examine		Art Unit				
		William B		2851				
The MAILING Period for Reply	G DATE of this communication	appears on the	ocover sheet with the c	correspondence ad	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status			•					
1) Responsive t	o communication(s) filed on _							
2a)☐ This action is		 This action is r	on-final.					
3) Since this ap								
closed in acc	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-4</u>	4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.							
4a) Of the abo	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s)	5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-4</u>	6)⊠ Claim(s) <u>1-4</u> is/are rejected.							
7̀)□ Claim(s)	Claim(s) is/are objected to.							
8) Claim(s)	are subject to restriction an	nd/or election r	equirement.		•			
Application Papers	•							
9)☐ The specificat	ion is objected to by the Exam	niner.						
10) The drawing (s	s) filed on <u>03 April 2002</u> is/are:	: a)⊠ accepte	ed or b) objected to	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement of	Irawing sheet(s) including the ∞ r	теction is requir	ed if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.	C. § 119							
	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)⊠ None of:							
1.⊠ Certifie	d copies of the priority docum	ents have bee	n received.					
2.☐ Certifie	_							
3.☐ Copies	of the certified copies of the p	oriority docume	ents have been receive	ed in this National	Stage			
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson	s Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 02/11/02, 04/03/02. 5) Notice of Informal Patent Application 6) Other:								

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kitaguchi et al. (U.S. Patent No. 6,038,074).

Kitaguchi et al. discloses a three-dimensional model forming apparatus in Fig. 4; a camera is shown at reference numeral 1 in Fig. 4; an attitude sensor is shown at reference numeral 3; and a processing means is shown at reference numerals 5-8. Also, note the flow diagrams, especially the step of determining convergence as seen at step S16 in Fig. 8 and repeating steps of the program, until convergence is achieved.

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3. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Sundahl (U.S. Patent No. 6,094,215).

Sundahl shows a three-dimension model forming apparatus in Fig. 1; a camera 104; an attitude sensor 128; and a processing means 140.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 3 and 4 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 3 and 4 are directed to steps of a mathematical algorithm and thus drawn to a judicial exception. This rejection can be overcome by amending claims 3 and 4 to include a tangible end result or physical transformation of the calculations.

Telephone Numbers

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William B. Perkey whose telephone number is (571) 272-2126. The examiner can normally be reached on Monday-Thursday 7:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached at 571-272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mblerky

William B. Perkey Primary Examiner Art Unit 2851

WBP:wbp February 7, 2007